GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1220W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

AREA COUNTS

DATE   12/20/06   12/20/00   12/20/00   12/20/00   12/20/00   12/20/00   12/20/00   12/20/00   12/20/00   12/20/00   12/20/00   12/20/00   12/20/00   12/20/00   10/35   10/		SVW36-VPC-035	SVW36-VPC-035	SVW36-VPC-036 DUP	SVW36-VPC-036 DUP	SVW36-VPE-037	SVW36-VPE-037
ANALYSISTIME 10:08 10:08 10:08 10:09 10:30 10:30 10:54 10:54 5AMPLING DEPTH (feet) 55 5 5 5 5 5 5 5 5 92 92 92 70 10 10 10 10 1 1 1 1 1 1 1 1 1 1 1 1	DATE	12/20/00	12/20/00	12/20/00	12/20/00	12/20/00	12/20/00
SAMPLING DEPTH (feet)   55   55   55   55   92   92   92   VOLUME WITHORAWI (cc)   220   220   220   220   370	SAMPLING TIME	10:02	10:02	10:23	10:23	10:48	:
VOLUME WITHDRAWN (cc)   220   220   220   370   370   370   VOLUME NIJECTED   1   1   1   1   1   1   1   1   1	ANALYSIS TIME	10:06	10:06	10:30	10:30	10:54	
VOLUME WITHDRAWN (cc)         220         220         220         220         370         370           VOLUME INJECTED         1	SAMPLING DEPTH (feet)	55	55	55	55	92	
DILUTION FACTOR		220	220	220	220	370	370
RT   AREA	VOLUME INJECTED	1	1	. 1	1	1	1
CARBON TETRACHLORIDE	DILUTION FACTOR	1	1	1	.1	. 1	, 1
CHLOROETHANE/BROMOMETHANE CHLOROFORM 9.0 709 9.0 755 nd nd CHLOROFORM 9.0 709 9.0 755 nd nd nd 1.2-DICHLOROETHANE nd		RT	AREA	RT	AREA	RT	AREA
CHLOROFORM 9.0 709 9.0 755 nd nd 1.1 - IDICHLORO ETHANE nd	CARBON TETRACHLORIDE	10.2	15035	10.2	16394	nd	:
1,1-DICHLORO ETHANE	CHLOROETHANE/BROMOMETHANE	nd	nd	nd	· nd	- nd	
1,2-DICHLORO ETHANE	CHLOROFORM	9.0	709	9.0	755	nd	ž.
1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	;
CIS-1,2-DICHLORO ETHENE	1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	:
TRANS-1,2-DICHLORO ETHENE	1,1-DICHLORO ETHENE	5.8	51	5.8	46	nd	
DICHLOROMETHANE   nd   nd   nd   nd   nd   nd   nd   n	CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	•
TETRACHLORO ETHENE	TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	•
1,1,1,2-TETRACHLORO ETHANE	DICHLOROMETHANE	nd	nd	nd	nd	nd	:
1,1,2,2-ETRACHLORO ETHANE	TETRACHLORO ETHENE	nd	nd	nd	nd	nd	:
1,1,1-TRICHLORO ETHANE 9.7 8689 9.7 9081 nd nd 1,1,2-TRICHLORO ETHANE nd	1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	•
1,1,2-TRICHLORO ETHANE       nd       nd       nd       nd       nd       nd         TRICHLORO ETHENE       11.5       345       11.6       377       nd       nd         VINYL CHLORIDE       nd       nd       nd       nd       nd       nd       nd       nd         TRICHLOROF LUOROMETHANE (FR11)       nd       nd <td>1,1,2,2-TETRACHLORO ETHANE</td> <td>nd</td> <td>nd</td> <td>nd</td> <td>nd</td> <td>nd</td> <td>•</td>	1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	•
TRICHLORO ETHENE 11.5 345 11.6 377 nd nd VINYL CHLORIDE nd	1,1,1-TRICHLORO ETHANE	9.7	8689	9.7	9081	. nd	
VINYL CHLORIDE         nd	1,1,2-TRICHLORO ETHANE	nd	nd .	nd nd	nd	nd	
TRICHLOROFLUOROMETHANE (FR11)	TRICHLORO ETHENE	11.5	345	11.6	377	nd	
Note   Control	VINYL CHLORIDE	nd	nd	nd	nd	nd	· · · · · · · · · · · · · · · · · · ·
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)   5.7   131   5.7   134   nd   nd     BENZENE	TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
RENZENE	DICHLORODIFLUOROMETHANE (FR12)	nd	nd				
TOLUENE   Nd   Nd   Nd   Nd   Nd   Nd   Nd	1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	5.7	131	5.7	134	nd	
TOLUENE Nd	BENZENE	nd	nd	nd	nd	nd	•
m&p-XYLENES         nd	ETHYLBENZENE	nd	nd	nd	nd	nd	nd
o-XYLENE         nd         <	TOLUENE	nd	nd	nd	nd	nd	nd
o-XYLENE         nd         <	m&p-XYLENES	nd	nd	nd	nd	nd	:
1,4 DIFLUORO BENZENE     10.8     164     10.8     160     10.8     161       CHLOROBENZENE     17.7     398     17.8     400     17.7     402       4 BROMOFLUORO BENZENE     21.0     690     21.0     690     20.9     692	•	- nd	nd	nd	nd	<sup>r</sup> nd	nd
CHLOROBENZENE 17.7 398 17.8 400 17.7 402 4 BROMOFLUORO BENZENE 21.0 690 21.0 690 20.9 692	SURROGATES						
CHLOROBENZENE         17.7         398         17.8         400         17.7         402           4 BROMOFLUORO BENZENE         21.0         690         21.0         690         20.9         692	1.4 DIFLUORO BENZENE	10.8	164	10.8	160		
4 BROMOFLUORO BENZENE 21.0 690 21.0 690 20.9 692	., . = =	17.7	398	17.8	400	17.7	
ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 LIG/L-VAPOR FOR EACH COMPOUND	4 BROMOFLUORO BENZENE	21.0	690	21.0	690	20.9	692
IND INDICATES NOT DETECTED AT A DETECTION FINAL OF 1'D OCIE-AVEOUT OLD COMP ASSESSMENT OF THE OCITION OF THE OCITION O	ND INDICATES NOT DETECTED AT A DETECTION	LIMIT OF 1.0 UG/L-VAPO	OR FOR EACH COMP	DUND	A		. %

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

ANALYSES PERFORMED BY: ALLEN GLOVER

GEOFON PROJECT # 04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1221W1

GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	BLANK	SVW35-VPA-038	SVW35-VPD-039	SVW34-VPA-040	SVW34-VPB-041	SVW34-VPB-042 DUP	SVW34-VPD-043
DATE	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00
SAMPLING TIME	05:40	06:59	07:25	08:17	08:37	9:05	09:30
ANALYSIS TIME	05.42	07:04	07:28	08:19	08:46	09:10	09:33
SAMPLING DEPTH (feet)		20	60	20	. 35	35	65
VOLUME WITHDRAWN (cc)	200	80	240	80	140	140	260
VOLUME INJECTED	1	1	1	1	1	. 1	1
DILUTION FACTOR	1		1	1		respectively.	1
A Section 1997		aran aran aran aran aran aran aran aran			the Mark Mark		
CARBON TETRACHLORIDE	nd	nd	nd	nd	5.9	5.9	nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	< nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	. nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	· nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	· nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	. nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd
SURROGATES							
1,4 DIFLUORO BENZENE	107%	105%	101%	105%	106%	107%	97%
CHLOROBENZENE	97%	104%	100%	108%	106%	108%	96%
4 BROMOFLUORO BENZENE	99%	106%	103%	109%	108%	112%	100%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT # 04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1221W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR	SVW34-VPF-044	SVW34-VPG-045	SVW34-VPH-046	SVW32-VPB-047	SVW32-VPB-048 DUP	SVW32-VPC-049
DATE	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00
SAMPLING TIME	09:55	10:15	10:43	11:07	11:30	11:55
ANALYSIS TIME	09:57	10:21	10:45	11:10	11:34	11:58
SAMPLING DEPTH (feet)	95	108	118	40	. 40	55
VOLUME WITHDRAWN (cc)	380	435	475	160	160	220
VOLUME INJECTED	1	1	· 1	1	1	. 1
DILUTION FACTOR		1		1	1	1
CARBON TETRACHLORIDE	nd	nd	26	nd		nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd		nd
CHLOROFORM	nd	nd	2.4	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	. nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	· ·	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	, nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd		nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	· nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	- nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd .	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	1.4	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd -	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	, nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES						
1,4 DIFLUORO BENZENE	95%	95%	98%	102%		93%
CHLOROBENZENE	97%	97%	100%	100%		95%
4 BROMOFLUORO BENZENE	100%	99%	100%	104%	97%	96%
ND INDICATES NOT DETECTED AT A DETECTION LIM	IT OF 1.0 UG/L-VAPOF	R FOR EACH COMPOU	ND			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

ANALYSES PERFORMED BY: ALLEN GLOVER

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1221W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

AREA COUNTS

	BLANK	BLANK	SVW35-VPA-038	SVW35-VPA-038	SVW35-VPD-039	SVW35-VPD-039	SVW34-VPA-040	SVW34-VPA-040
DATE	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00
SAMPLING TIME	5:40	- 5:40	6:59	6:59	7:25	7:25	8:17	8:17
ANALYSIS TIME	5:42	5:42	7:04	7:04	7:28	7:28	8:19	8:19
SAMPLING DEPTH (feet)			20	20	60	60	20	20
VOLUME WITHDRAWN (cc)	200	200	80	80	240	240	80	80
VOLUME INJECTED	1	1	1	1	1	1	1	1
DILUTION FACTOR		1	1	1		1	11	1
	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	< nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	- nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	. nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	. nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	. nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	. nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES								
1,4 DIFLUORO BENZENE	10.7	173	10.8	170	10.7	163	10.8	170
CHLOROBENZENE	17.6	383	17.8	413	17.7	396	17.7	427
4 BROMOFLUORO BENZENE	20.7	658	20.9	707	20.9	682	20.9	722
ND INDICATES NOT DETECTED AT A DETECTION	VILIMIT OF 1.0 UG/	L-VAPOR FOR	EACH COMPOUND	)				

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1221W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

AREA COUNTS

AREA COUNTS	SVW34-VPB-041	SVW34-VPB-041	SVW34-VPB-042 DUP	SVW34-VPB-042 DUP	SVW34-VPD-043	SVW34-VPD-043
DATE	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00
SAMPLING TIME	8:37	8:37	9:05	9:05	9:30	9:30
ANALYSIS TIME	8:46	8:46	9:10	9:10	9:33	9:33
SAMPLING DEPTH (feet)	35	35	35	35	65	65
VOLUME WITHDRAWN (cc)	140	140	140	140	260	260
VOLUME INJECTED	1	1	1	1	1	. 1
DILUTION FACTOR	1	1		1	1	<u> </u>
	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	10.3	1456	10.2	1445	nd	nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd -	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	. nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	. nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	· nd
SURROGATES						
1,4 DIFLUORO BENZENE	10.8	171	10.7	173	10.7	157
CHLOROBENZENE	17.7	420	17.7	426	17.7	382
4 BROMOFLUORO BENZENE	20.9	719	20.9	741	21.0	663

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745) ANALYSES PERFORMED BY: ALLEN GLOVER

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1221W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

#### AREA COUNTS

SAMPLING TIME		SVW34-VPF-044	SVW34-VPF-044	SVW34-VPG-045	SVW34-VPG-045	SVW34-VPH-046	SVW34-VPH-046
ANALYSISTIME   9-67   9-57   9-57   10-21   10-21   10-45   10-5	DATE	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00
SAMPLING DEPTH (Reb)   95   95   108   108   118   118   119   119   118   119   118   119   119   118   119   118   119   1	SAMPLING TIME	9:55	9:55	10:15	10:15	10:43	10:43
VOLUME WITHORAWN (cc)   380   380   435   435   475   475   VOLUME INJECTED   1   1   1   1   1   1   1   1   1	ANALYSIS TIME	9:57	9:57	10:21	10:21	10:45	10:45
VOLUME INJECTED   1	SAMPLING DEPTH (feet)	95	95	108	108.	118	118
DILUTION FACTOR	VOLUME WITHDRAWN (cc)	380	380	435	435	475	475
AREAN   RT   AREA   RT   AREA   RT   AREA   RT   AREA   RT   AREA   AREA   RT   AREA   RT   AREA	VOLUME INJECTED	° 1	1	1	1	. 1	1
CARBON TETRACHLORIDE	DILUTION FACTOR	1	1	1	1	1	1
CHLOROETHANE/BROMOMETHANE		RT :	AREA	RT <sub>.</sub>	AREA	RT	AREA
CHLOROFORM	CARBON TETRACHLORIDE	nd	nd	nd	nd	10.2	6287
1,1-DICHLORO ETHANE	CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	CHLOROFORM	nd	nd	nd	nd	9.0	1014
1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	nd	nd	nd	nd <	nd	nd
CIS-1,2-DICHLORO ETHENE	1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE         nd	1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE   nd   nd   nd   nd   nd   nd   nd   n	CIS-1,2-DICHLORO ETHENE	nd	nd	nd nd	nd -	nd	nd
TETRACHLORO ETHENE	TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd nd
1,1,1,2-TETRACHLORO ETHANE       nd	DICHLOROMETHANE	nd	nđ	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE         nd         nd <th< td=""><td>TETRACHLORO ETHENE</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td></th<>	TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE       nd       <	1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE         nd         nd<	1,1,2,2-TETRACHLORO ETHANE	nd	, nd	nd	nd	nd	nd
TRICHLORO ETHENE         nd	1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE         nd	1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)         nd	TRICHLORO ETHENE	nd	nd	nd	nd ·	nd	nd
DICHLORODIFLUOROMETHANE (FR12)         nd	VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)         nd         nd         nd         nd         nd         5.7         18           BENZENE         nd	TRICHLOROFLUOROMETHANE (FR11)	nđ	nd	nd	nd	nd	nd
BENZENE         nd         nd <t< td=""><td></td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td></td><td>nd</td></t<>		nd	nd	nd	nd		nd
ETHYLBENZENE         nd	1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	5.7	186
TOLUENE         nd         nd <t< td=""><td>BENZENE</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td></t<>	BENZENE	nd	nd	nd	nd	nd	nd
m&p-XYLENES         nd	ETHYLBENZENE	nd	nd	nd	nd	nd	nd
o-XYLENE         nd         nd         nd         nd         nd         nd         nd         rd         <	TOLUENE	nd	nd	nd	nd	nd	nd
SURROGATES           1,4 DIFLUORO BENZENE         10.7         154         10.7         154         10.8         15           CHLOROBENZENE         17.7         383         17.7         386         17.8         39           4 BROMOFLUORO BENZENE         21.0         664         21.0         657         21.0         66	m&p-XYLENES	nd	nd	nd	nd	nd	nd
1,4 DIFLUORO BENZENE     10.7     154     10.7     154     10.8     15       CHLOROBENZENE     17.7     383     17.7     386     17.8     39       4 BROMOFLUORO BENZENE     21.0     664     21.0     657     21.0     66	o-XYLENE	nd	nd	nd	nd	nd	nd
CHLOROBENZENE         17.7         383         17.7         386         17.8         39           4 BROMOFLUORO BENZENE         21.0         664         21.0         657         21.0         66	SURROGATES						
4 BROMOFLUORO BENZENE 21.0 664 21.0 657 21.0 66	1,4 DIFLUORO BENZENE						159
	CHLOROBENZENE						397.
ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND	4 BROMOFLUORO BENZENE	21.0	664	21.0	657	21.0	665
	ND INDICATES NOT DETECTED AT A DETECTION	LIMIT OF 1.0 UG/L-VAPOI	R FOR EACH COMPO	JND			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1221W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

AREA COUNTS

AREA GOUNTO	SVW32-VPB-047	SVW32-VPB-047	SVW32-VPB-048 DUP	SVW32-VPB-048 DUP	SVW32-VPC-049	SVW32-VPC-049
DATE	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00	12/21/00
SAMPLING TIME	11:07	11:07	11:30	11:30	11:55	11:55
ANALYSIS TIME	11:10	11:10	11:34	11:34	11:58	11:58
SAMPLING DEPTH (feet)	40	40	40	40	55	55
VOLUME WITHDRAWN (cc)	160	160	160	160	220	220
VOLUME INJECTED	1	1	1	1	1	1
DILUTION FACTOR	; 1	1	1	1	1	1
	RT	AREA	RŢ	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	, nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd <	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	. nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd -	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd .	nd	nd	nd nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd.	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	. nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	. nd
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	· nd	nd	nd	nd
TOLUENE	nd	· nd	nd	nd	nd	. nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES						
1,4 DIFLUORO BENZENE	10.9	166	10.8	152	10.8	150
CHLOROBENZENE	17.8	396	17.8	375	17.8	378
4 BROMOFLUORO BENZENE	21.0	691	21.0	645	21.0	638
ND INDICATES NOT DETECTED AT A DETECTION	N LIMIT OF 1.0 UG/L-VAPOR	R FOR EACH COMPO	UND			<i>r</i>

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT # 04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1222W1

GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	BLANK	SVW32-VPD-050	SVW32-VPE-051	SVW32-VPH-052	SVW32-VPI-053	SVW32-VPI-054 DUP	SVW32-VPJ-055
DATE	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00
SAMPLING TIME	05:53	06:54	07:19	07:44	08:08	08:31	08:55
ANALYSIS TIME	05:54	06:58	07:22	07:45	08:09	08:33	08:58
SAMPLING DEPTH (feet)		70	90	155	180	180	195
VOLUME WITHDRAWN (cc)	200	280	360	620	720	720	780
VOLUME INJECTED	1	1	· 1	1	1	1	1
DILUTION FACTOR	1	1_	1	1	1	1	1
	-						
CARBON TETRACHLORIDE	nd	nd	nd	14	nd	nd	. nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	. nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd.	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd nd	nd	nd
DICHLOROMETHANE	nd	nd nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	. nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd :
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd .	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	. nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	17	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd
SURROGATES						•	
1,4 DIFLUORO BENZENE	105%	96%	87%	93%	94%	97%	102%
CHLOROBENZENE	. 95%	98%	. 88%	93%	93%	97%	105%
4 BROMOFLUORO BENZENE	97%	102%	88%	95%	95%	100%	107%

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT # 04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1222W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	SVW39-VPA-056	SVW39-VPC-057	SVW39-VPD-058	SVW39-VPE-059	SVW39-VPE-060 DUP	SVW-VPF-061
DATE	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00
SAMPLING TIME	09:20	09:42	10:05	10:30	10:54	- 11:17
ANALYSIS TIME	09:21	09:45	10:09	10:32	10:56	11:20
SAMPLING DEPTH (feet)	20	50	70	85	85	100
VOLUME WITHDRAWN (cc)	80	200	280	340	340	400
VOLUME INJECTED	1	1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1
CARBON TETRACHLORIDE	nd	nd	nd	2.4	2.1	5.0
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	, nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	< nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd -	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	. nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	1.3	1.3	2.3
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	17	16	21
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	, nd	nd	nd	nd
m&p-XYLENES	nd	nd	. nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES						
1,4 DIFLUORO BENZENE	107%	95%	98%	99%	97%	99%
CHLOROBENZENE	109%	97%	98%	102%	94%	98%
4 BROMOFLUORO BENZENE ND INDICATES NOT DETECTED AT A DETECTION LIN	112%	101%	100%	103%	96%	102%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1222W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

AREA COUNTS

	BLANK	BLANK	SVW32-VPD-050	SVW32-VPD-050	SVW32-VPE-051	SVW32-VPE-051	SVW32-VPH-052	SVW32-VPH-052
DATE	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00
SAMPLING TIME	5:53	5:53	6:54	6:54	7:19	7:19	7:44	7:44
ANALYSIS TIME	5:54	5:54	6:58	6:58	7:22	7:22	7:45	7:45
SAMPLING DEPTH (feet)			70	70	90	90	155	155
VOLUME WITHDRAWN (cc)	200	200	280	280	360	360	620	620
VOLUME INJECTED	1	1	1	. 1	1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1	. 1	1
1.00 at 1.00 a	RT -	AREA	RT	AREA	and the RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd	10.2	3362
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	nd	nd	· nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	. nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd <sub>.</sub>	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	. nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd -	nd	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd	5.6	2271
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd.	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	· nd	nd	nd	nd	nd	nd
SURROGATES								
1,4 DIFLUORO BENZENE	10.7	170	10.8	156	10.8	141	10.7	150
CHLOROBENZENE	17.6	378	17.7	390	17.7	347	17.7	367
4 BROMOFLUORO BENZENE	20.7	641	20.9	679	20.9	587	20.9	631
NO INDICATED NOT DETECTED AT A DETECTION	LIMITOTACHOL	WADOD FOR	FACILICOMPOLIA	Б				

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

ANALYSES PERFORMED BY: ALLEN GLOVER

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1222W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

AREA COUNTS

	SVW32-VPI-053	SVW32-VPI-053	SVW32-VPI-054 DUP	SVW32-VPI-054 DUP	SVW32-VPJ-055	SVW32-VPJ-055
DATE	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00
SAMPLING TIME	8:08	8:08	8:31	8:31	8:55	8:55
ANALYSIS TIME	8:09	8:09	8:33	8:33	8:58	8:58
SAMPLING DEPTH (feet)	180	180	180	180	195	195
VOLUME WITHDRAWN (cc)	720	720	720	720	780	780
VOLUME INJECTED	1	1	. 1	1	1	1
DILUTION FACTOR	1	1	. 1	1	. 1	1
e de la companya del la companya de	RT	AREA	******* RT-	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	, nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd .	nd	nd	nd	nd nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd -	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	. nd	nd	nd	nd	nd .	nd
TRICHLORO ETHENE	nd	nd	nd	. nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd ·	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES			· · · · · · · · · · · · · · · · · · ·			
1,4 DIFLUORO BENZENE	10.8	152	10.7	157	10.8	165
CHLOROBENZENE	17.7	367	17.7	385	17.8	417
4 BROMOFLUORO BENZENE	20.9	633	20.9	666	21.0	708
ND INDICATES NOT DETECTED AT A DETECTION	LIMIT OF 10 LIGH VAROR	EOD EACH COMBOL	INID			

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

ANALYSES PERFORMED BY: ALLEN GLOVER

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1222W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

#### AREA COUNTS

	SVW39-VPA-056	SVW39-VPA-056	SVW39-VPC-057	SVW39-VPC-057	SVW39-VPD-058	SVW39-VPD-058
DATE	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00
SAMPLING TIME	9:20	9:20	9:42	9:42	10:05	10:05
ANALYSIS TIME	9:21	9:21	9:45	9:45	10:09	10:09
SAMPLING DEPTH (feet)	20	20	50	50	70	70
VOLUME WITHDRAWN (cc)	80	80	200	200	280	280
VOLUME INJECTED	1	1	. • 1	1	1	1
DILUTION FACTOR	1	1	1	1	, <b>1</b>	1
	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	. nd	nd	nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	· nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	. nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	. nd	nd	nd .	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd ·	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	. nd	nd	nd
TRICHLORO ETHENE	nd	nd	· nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nď	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	· nd	nd	nd	nd
SURROGATES						
1,4 DIFLUORO BENZENE	10.7	174	10.8	154	10.7	159
CHLOROBENZENE	17.7	433	17.7	383	17.7	390
4 BROMOFLUORO BENZENE	20.9	743	20.9	668	20.9	662
ND INDICATES NOT DETECTED AT A DETECTION L	IMIT OF 1.0 UG/L-VAPOR	FOR EACH COMPOU	ND			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1222W1 GC SHIMADZU 14A FRONT VOLATILE HALOGENATED AND AROMATIC HYDROCARBON.

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

AREA	COL	INT	S
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	SVW39-VPE-059	SVW39-VPE-059	SVW39-VPE-060 DUP	SVW39-VPE-060 DUP	SVW-VPF-061	SVW-VPF-061
DATE	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00	12/22/00
SAMPLING TIME	10:30	10:30	10:54	10:54	11:17	11:17
ANALYSIS TIME	10:32	10:32	10:56	10:56	11:20	11:20
SAMPLING DEPTH (feet)	85	85	85	85	100	100 <sup>-</sup>
VOLUME WITHDRAWN (cc)	340	340	340	340	400	400
VOLUME INJECTED	1	1	. 1	1	1	1
DILUTION FACTOR	1	1	1	1	1	1
	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	10.2	582	10.2	520	10.2	1228
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	- nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd,	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	. nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nđ	nd	nd	nd .	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	· nd
1,1,1-TRICHLORO ETHANE	nd	. nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	. nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	11.5	16	11.6	16	11.5	29
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	5.6	2191	5.7	2101	5.7	2801
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES					<del></del>	
1,4 DIFLUORO BENZENE	10.7	160	10.8	157	10.8	160
CHLOROBENZENE	17.7	402	17.8	373	17.7	390
4 BROMOFLUORO BENZENE	` 20.9	684	21.0	639	21.0	679
ND INDICATES NOT DETECTED AT A DETECTION	LIMIT OF 1.0 UG/L-VAPOR	FOR EACH COMPOL				

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1227W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	BLANK	SVW39-VPI-062	SVW38-VPA-063	SVW38-VPB-064	SVW38-VPC-065
DATE	12/27/00	12/27/00	12/27/00	12/27/00	12/27/00
SAMPLING TIME	06:05	07:00	07:22	07:45	08:10
ANALYSIS TIME	06:05	07:03	07:26	07:50	08:13
SAMPLING DEPTH (feet)		130	25	45	65
VOLUME WITHDRAWN (cc)	200	520	100	180	260
VOLUME INJECTED	1	1	1	1	. 1
DILUTION FACTOR			1	12.00 - A. Waller L. A. J. W.	Monte and Advisory.
Andrew Section 1997	make into the			a process organists of the first	
CARBON TETRACHLORIDE	nd	2.4	nd	nd	nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd .	nd
CHLOROFORM	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	rid	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	, ' nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	. nd	nd	nd	` nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	. nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	5.2	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	2.1	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd
SURROGATES					
1,4 DIFLUORO BENZENE	96%	97%	94%	94%	96%
CHLOROBENZENE	90%	97%	95%	95%	95%
4 BROMOFLUORO BENZENE	91%	100%	98%	97%	98%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT # 04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1227W1

GC SHIMADZU 14A FRONT

VOLATILE HALOĞENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	SVW38-VPC-066 DUP	SVW38-VPD-067	SVW38-VPF-068	SVW38-VPG-069	SVW38-VPJ-070
DATE	12/27/00	12/27/00	12/27/00	12/27/00	12/27/00
SAMPLING TIME	08:35	08:57	09:20	09:45	10:14
ANALYSIS TIME	08:37	09:00	09:24	09:48	10:15
SAMPLING DEPTH (feet)	65	80	110	125	170
VOLUME WITHDRAWN (cc)	260	320	440	500	680
VOLUME INJECTED	1	1	. 1	1	. 1
DILUTION FACTOR	1	1	z rest tegeseren in the 1		1-
2.76		1 0 6 1	V		And the second second
CARBON TETRACHLORIDE	nd	nd	3.0	2.3	4.6
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	. nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nď	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	. nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	· nd	nd	nd	· nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	1.2	1.0	2.2
VINYL CHLORIDE	nd nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANÉ (FR12)	nd	nd	nd	nd	. nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	1.5	1.4	5.9
BENZENE	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd
SURROGATES					
1,4 DIFLUORO BENZENE	98%	99%	95%	99%	104%
CHLOROBENZENE	98%	99%	96%	101%	103%
4 BROMOFLUORO BENZENE	100%	102%	98%	102%	107%
ND INDICATES NOT DETECTED AT A DETECTION LIMIT	OF 1.0 UG/L-VAPOR FOR	EACH COMPOUND			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1227W1
GC SHIMADZU 14A FRONT
VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR
AREA COUNTS

	BLANK	BLANK	SVW39-VPI-062	SVW39-VPI-062	SVW38-VPA-063	SVW38-VPA-063	SVW38-VPB-064	SVW38-VPB-064
DATE	12/27/00	12/27/00	12/27/00	12/27/00	12/27/00	12/27/00	12/27/00	12/27/00
SAMPLING TIME	6:05	6:05	7:00	7:00	7:22	7:22		7:45
ANALYSIS TIME	6:05	6:05	7:03	7:03	7:26	7:26	7:50	7:50
SAMPLING DEPTH (feet)			130	130	25	25	45	45
VOLUME WITHDRAWN (cc)	200	200	520	520	100	100	180	180
VOLUME INJECTED	1	1	1	1	1	1	1	1
DILUTION FACTOR	1	1.	. 1	1	- 1	1	11	1
v	RT	AREA	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	10.2	594	nd	nd	nd	nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	nd	nd nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	<sub>z</sub> nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	. nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	. nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd	. nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nđ	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	11.5	64	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	· nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	5.7	276	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd	nd	nd
SURROGATES								
1,4 DIFLUORO BENZENE	10.7	155	10.8	157	10.8	153	10.7	153
CHLOROBENZENE	17.6	356	17.7	386	17.7	376	17.7	376
4 BROMOFLUORO BENZENE	20.7	605	20.9	661	20.9	650	20.9	647
NO INDICATED NOT DETECTED AT A DETECTION	ULIMIT OF 4 O LIC	// \/ADOD F	D FACIL COMPOU	ND				

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND.

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1227W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR AREA COUNTS

SAMPLING TIME		SVW38-VPC-065	SVW38-VPC-065	SVW38-VPC-066 DUP	SVW38-VPC-066 DUP	SVW38-VPD-067	SVW38-VPD-067
ANALYSISTIME	DATE	12/27/00	12/27/00	12/27/00	12/27/00	12/27/00	12/27/00
SAMPLING DEPTH (feet)	SAMPLING TIME	8:10	8:10	. 8:35	8:35	8:57	8:57
VOLLIME WITHORAWN (cc)   260   260   280   320	ANALYSIS TIME	8.13	8:13	8:37	8:37	9:00	9:00
VOLUME INJECTED   1	SAMPLING DEPTH (feet)	65	· 65	65	65	80	80
DILUTION FACTOR	VOLUME WITHDRAWN (cc)	260	260	260	260	320	320
RT   AREA   RT   AREA   RT   AREA   RT   AREA   RT   AREA   AREA   RT   AREA	VOLUME INJECTED	1	1	. 1	1	. 1	1
CARBON TETRACHLORIDE	DILUTION FACTOR	1.	. 1	1	1	1	1
CHLOROETHANE/BROMOMETHANE   nd   nd   nd   nd   nd   nd   nd   n	2	RT	AREA	RT	AREA	RT	AREA
CHLOROFORM		nd	nd	nd	nd		nd
1,1-DICHLORO ETHANE		nd	nd	nd	ınd	nd	nd
1,2-DICHLORO ETHANE         nd         nd <td>CHLOROFORM</td> <td>nd</td> <td>nd</td> <td>nd</td> <td>nd</td> <td>nd</td> <td>nd</td>	CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	•	nd	nd	nd	nd	«	nd
CIS-1,2-DICHLORO ETHENE   nd   nd   nd   nd   nd   nd   nd   n	1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE   nd   nd   nd   nd   nd   nd   nd   n	•	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE   nd   nd   nd   nd   nd   nd   nd   n	· ·	nd	nd	nd nd	nd	nd	nd
TETRACHLORO ETHENE		nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE         nd         nd <td< td=""><td>DICHLOROMETHANE</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td></td<>	DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE         nd         nd <th< td=""><td>TETRACHLORO ETHENE</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td></th<>	TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE         nd         nd         nd         nd         nd         nd           1,1,2-TRICHLORO ETHANE         nd         nd </td <td>1,1,1,2-TETRACHLORO ETHANE</td> <td>nd</td> <td>nd</td> <td>nd</td> <td>nd</td> <td>nd</td> <td>nd</td>	1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE         nd         nd         nd         nd         nd         nd           TRICHLORO ETHENE         nd	1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	. nd
TRICHLORO ETHENE         nd	1,1,1-TRICHLORO ETHANE	nd	nd	nd	. nd	nd	nd
VINYL CHLORIDE         nd	1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)         nd		nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)         nd         nd         nd         nd         nd         nd           1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)         nd	VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)         nd         nd         nd         nd         nd         nd           BENZENE         nd         nd         nd         nd         nd         nd         nd           ETHYLBENZENE         nd         nd         nd         nd         nd         nd         nd           TOLUENE         nd         nd         nd         nd         nd         nd         nd           m&p-XYLENES         nd         nd         nd         nd         nd         nd         nd         nd           O-XYLENE         nd         <	TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
BENZENE         nd         nd <t< td=""><td></td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd nd</td><td>nd</td></t<>		nd	nd	nd	nd	nd nd	nd
ETHYLBENZENE         nd		nd	nd	nd	nd	nd	nd
TOLUENE         nd         nd <t< td=""><td></td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td></t<>		nd	nd	nd	nd	nd	nd
m&p-XYLENES         nd		nd	nd	nd	nd	nd	nd
o-XYLENE         nd         nd         nd         nd         nd         nd         nd         nd         strain of the property of the	TOLUENE	nd	<sub>.</sub> nd	nd	nd	nd	nd
SURROGATES           1,4 DIFLUORO BENZENE         10.8         156         10.8         159         10.7         160           CHLOROBENZENE         17.7         376         17.7         387         17.7         393		nd	nd	nd	nd	nd	nd
1,4 DIFLUORO BENZENE         10.8         156         10.8         159         10.7         160           CHLOROBENZENE         17.7         376         17.7         387         17.7         393	o-XYLENE	nd	nd	nd	nd	nd	nd
CHLOROBENZENE 17.7 376 17.7 387 17.7 393	SURROGATES						
	1,4 DIFLUORO BENZENE	10.8	156	10.8	159		160
4 RPOMOELLIOPO RENZENE . 20 0 640 21 0 666 21 0 677	CHLOROBENZENE	17.7	376	17.7	387		393
T DITOMOT LOCATO DETALLIAL : 20.8 048 21.0 000 21.0 077	4 BROMOFLUORO BENZENE	20.9	649	21.0	666	21.0	677

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1227W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR AREA COUNTS

SAMPLING TIME	AREA GOOIVIO	SVW38-VPF-068	SVW38-VPF-068	SVW38-VPG-069	SVW38-VPG-069	SVW38-VPJ-070	SVW38-VPJ-070
ANALYSIS TIME 9.24 9.24 9.48 9.48 10.15 10.15 ANALYSIS TIME 9.24 9.24 9.48 9.48 10.15 10.15 ANALYSIS TIME 9.24 9.24 9.48 9.48 10.15 10.15 ANALYSIS TIME 9.24 9.48 9.48 10.15 10.15 ANALYSIS TIME 9.24 9.48 9.48 10.15 10.15 10.15 ANALYSIS TIME 9.24 9.48 9.48 10.15 10.	DATE	12/27/00	12/27/00	12/27/00	12/27/00	12/27/00	12/27/00
SAMPLING DEPTH (feet)	SAMPLING TIME	- 9:20	9:20	9:45	9:45	10:14	10:14
VOLUME WITHDRAWN (cc)	ANALYSIS TIME	9:24	9:24	9:48	9:48	10:15	10:15
VOLUME INJECTED   1	SAMPLING DEPTH (feet)	110	110	125	125	170	170
DILUTION FACTOR	VOLUME WITHDRAWN (cc)	440	440	500	500	680	680
RT   AREA   RT   AREA   RT   AREA   RT   AREA   A	VOLUME INJECTED	1	1	1	1	. 1	1
CARBON TETRACHLORIDE 10.2 730 10.2 564 10.3 113 113 CHLOROETHANE/BROMOMETHANE	DILUTION FACTOR	1		1	1		1
CHLOROETHANE/BROMOMETHANE  nd	The state of the s						AREA
CHLOROFORM	CARBON TETRACHLORIDE	10.2	730	10.2	564		1132
1,1-DICHLORO ETHANE	CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd		nd
1,2-DICHLORO ETHANE	CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	1,1-DICHLORO ETHANE	nd	nd	nd	nd	a nd	nd
CIS-1,2-DICHLORO ETHENE	1,2-DICHLORO ETHANE	, nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE         nd	1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE   nd   nd   nd   nd   nd   nd   nd   n	CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd to	nd
1,1,1,2-TETRACHLORO ETHANE 1,1,2,2-TETRACHLORO ETHANE 1,1,1,1-TRICHLORO ETHANE 1,1,1,1,1-TRICHLORO 1,1,1,1,1-TRICHLORO 1,1,1,1,1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1,1 1,1,1,1 1,1,1,1 1,1,1,1 1,1,1,1 1,1,1,1 1,1,1,1 1,	DICHLOROMETHANE	nd	nd :	nd	. nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE 11.5 14 11.5 13 11.6 2 VINYL CHLORIDE	1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE         nd	1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)  Ind  Ind  Ind  Ind  Ind  Ind  Ind  In	TRICHLORO ETHENE	11.5	14	11.5	13	11.6	27
DICHLORODIFLUOROMETHANE (FR12)   nd   nd   nd   nd   nd   nd   nd   n	VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113) 5.7 190 5.7 180 5.8 770 BENZENE	TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
BENZENE	DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
ETHYLBENZENE         nd	1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	5.7	190	5.7	180	5.8	776
TOLUENE         nd         nd <t< td=""><td>BENZENE</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td><td>nd</td></t<>	BENZENE	nd	nd	nd	nd	nd	nd
m8p-XYLENES         nd	ETHYLBENZENE	nd	nd	nd	nd	nd	nd
0-XYLENE nd	TOLUENE	nd	nd	nd	nd	nd	nd
SURROGATES  1,4 DIFLUORO BENZENE 10.7 154 10.7 161 10.9 169 17.8 381 17.7 398 17.8 40 4 BROMOFLUORO BENZENE 21.0 649 21.0 680 21.0 71	m&p-XYLENES	nd	nd	nd	nd	nd	nd
1,4 DIFLUORO BENZENE     10.7     154     10.7     161     10.9     161       CHLOROBENZENE     17.8     381     17.7     398     17.8     40       4 BROMOFLUORO BENZENE     21.0     649     21.0     680     21.0     71	o-XYLENE	nd	nd	nd	nd	nd	nd
CHLOROBENZENE 17.8 381 17.7 398 17.8 40° 4 BROMOFLUORO BENZENE 21.0 649 21.0 680 21.0 71.	SURROGATES						
4 BROMOFLUORO BENZENE 21.0 649 21.0 680 21.0 71:	1,4 DIFLUORO BENZENE	10.7	154	10.7	161		169
	CHLOROBENZENE	17.8	381	17.7	398	17.8	407
ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND	4 BROMOFLUORO BENZENE	21.0	649	21.0	680	21.0	712
	ND INDICATES NOT DETECTED AT A DETECTION	LIMIT OF 1.0 UG/L-VAP	OR FOR EACH COMP	OUND			

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT # 04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1228W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	BLANK	SVW37-VPA-071	SVW37-VPA-072 DUP	SVW37-VPB-073	SVW37-VPC-074	SVW37-VPD-075
DATE	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00
SAMPLING TIME	06:04	06:52	07:11	07:36	08:01	08:24
ANALYSIS TIME	06:04	06:52	07:16	07:39	08:03	08:27
SAMPLING DEPTH (feet)		- 25	25	40	60	. 80
VOLUME WITHDRAWN (cc)	200	100	100	160	240	320
VOLUME INJECTED	1	1	1	1	. 1	1
DILUTION FACTOR	1	1		1	1	. 1
CARBON TETRACHLORIDE	nc	f nd	nd	1.4	nd	nd
CHLOROETHANE/BROMOMETHANE	no		nd	nd	nd	nd
CHLOROFORM	no		nd	nd	nd	nd
1.1-DICHLORO ETHANE	no		nd	nd	nd	nd
1,2-DICHLORO ETHANE	no		nd	nd	nd	nd
1,1-DICHLORO ETHENE	no	l nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	no	l nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nc	nd nd	nd	nd	nd	nd
DICHLOROMETHANE	no	l nd	nd	nd	nd	· nd
TETRACHLORO ETHENE	nc	i nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	no	i nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nc	ı nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	l nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	l nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	l nd	, nd	nd	nd	nd
VINYL CHLORIDE	nd	l nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	l nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	l nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	· nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES						
1,4 DIFLUORO BENZENE	98%	96%	93%	98%	94%	99%
CHLOROBENZENE	92%	95%	93%	97%	94%	99%
4 BROMOFLUORO BENZENE	94%	97%	96%	100%	96%	102%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT # 04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1228W1

GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

SOIL VAPOR DATA IN UG/L-VAPOR

	SVW37-VPE-076	SVW37-VPH-077	SVW37-VPH-078 DUP	SVW37-VPI-079	SVW37-VPJ-080
DATE	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00
SAMPLING TIME	08:47	09:10	09:35	10:01	10:25
ANALYSIS TIME	08;50	09:15	09:40	10:04	10:28
SAMPLING DEPTH (feet)	100	155	155	170	180
VOLUME WITHDRAWN (cc)	400	620	620	680	720
VOLUME INJECTED	1	1	1	1	. 1
DILUTION FACTOR	1	1	1	. 1	1
CARBON TETRACHLORIDE	5.9	3.5	3.2	4.1	3.7
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd .	nd
CHLOROFORM	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	k i nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	. nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd
TRICHLORO ETHENE	1.7	nd	nd	1.4	2.2
VINYL CHLORIDE	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	1.1	1.5	1.2	2.0	3.9
BENZENE	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	. nd
m&p-XYLENES	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd
SURROGATES					
1,4 DIFLUORO BENZENE	96%	94%	101%	99%	94%
CHLOROBENZENE	96%	95%	99%	99%	95%
4 BROMOFLUORO BENZENE ND INDICATES NOT DETECTED AT A DETECTION LIM	99%	96%	102%	101%	99%

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1228W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

#### AREA COUNTS

	BLANK	BLANK	SVW37-VPA-071	SVW37-VPA-071	SVW37-VPA-072 DUP	SVW37-VPA-072 DUP
DATE	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00
SAMPLING TIME	6:04	6:04	6.52	6:52	7:11	7:11
ANALYSIS TIME	6:04	6:04	6:52	6:52	7:16	7:16
SAMPLING DEPTH (feet)			25	25	25	25
VOLUME WITHDRAWN (cc)	200	200	100	100	100	100
VOLUME INJECTED	1	1	1	1	1	1
DILUTION FACTOR	1	. 1	1	1	1	1
	RT	AREA	RŢ	AREA	RT	AREA
CARBON TETRACHLORIDE	nd	nd	nd	nd	nd	nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd	, nd	nd
CHLOROFORM	nd	nd .	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd<	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1.1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	. nd	nd -	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	. nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	. nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	nd	nd	nd
VINYL CHLORIDE	nd-	_ nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES						
1,4 DIFLUORO BENZENE	10.7	159	10.8	156	10.7	151
CHLOROBENZENE	17.6	365	17.7	377	17.7	369
4 BROMOFLUORO BENZENE	20.8	622	20.9	646	21.0	636
ND INDICATES NOT DETECTED AT A DETECTION	LIMIT OF 4 A HOW MADE	OD FOR EACH COMPO	LIND			

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

ANALYSES PERFORMED BY: ALLEN GLOVER

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1228W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

AREA COUNTS

AREA GOGINIO	SVW37-VPB-073	SVW37-VPB-073	SVW37-VPC-074	SVW37-VPC-074	SVW37-VPD-075	SVW37-VPD-075
DATE	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00
SAMPLING TIME	7:36	7:36	8:01	8:01	8:24	8:24
ANALYSIS TIME	7:39	7:39	8:03	8:03	8:27	8:27
SAMPLING DEPTH (feet)	40	40	60	60	80	80
VOLUME WITHDRAWN (cc)	160	160	240	240	320	320
VOLUME INJECTED	1	1	1	1	1	1
DILUTION FACTOR	1	1	. 1	1	1	1
	RT	AREA	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	10.2	335	nd	nd	nd	nd
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	nd nd	nd	nd
CHLOROFORM	nd	nd	nd	nd	nd nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	· nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	· nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	. nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd '	nd	nd	nd	nd	nd
TRICHLORO ETHENE	nd	nd	nd	, nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	nd	nd	nd	nd	nd	nd
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	, nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	. nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES						
1,4 DIFLUORO BENZENE	10.8	159	10.8	153	10.8	161
CHLOROBENZENE	17.8	386	17.8	371	17.8	394
4 BROMOFLUORO BENZENE	21.0	661	21.0	638	21.0	680
ND INDICATES NOT DETECTED AT A DETECTION I	LIMIT OF 1.0 UG/L-VAPO	R FOR EACH COMPOL	JND			7

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1228W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

AREA COUNTS

AREA GOSKIO	SVW37-VPE-076	SVW37-VPE-076	SVW37-VPH-077	SVW37-VPH-077	SVW37-VPH-078 DUP	SVW37-VPH-078 DUP
DATE	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00	12/28/00
SAMPLING TIME	8:47	8:47	9:10	9:10	9:35	9:35
ANALYSIS TIME	8:50	8:50	9:15	9:15	9:40	9:40
SAMPLING DEPTH (feet)	100	100	155	155	155	155
VOLUME WITHDRAWN (cc)	400	400	620	620	620	620
VOLUME INJECTED	1	1	. 1	1	1	1
DILUTION FACTOR	1	1	1	. 1	1	1
	RT	AREA	RŢ	AREA	RT	AREA
CARBON TETRACHLORIDE	10.2	1451	10.3	860	10.3	798
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	. · nd	s nd	nd
CHLOROFORM	nd	nd	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd<	nd	nd
1,2-DICHLORO ETHANE	nd •	nd	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd	nd	nd .	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	- nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd	nd	nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd	nd	nd
TRICHLORO ETHENE	11.5	21	nd	nd	nd	nd
VINYL CHLORIDE	nd	nd	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	5.7	141	5.7	199	5.7	162
BENZENE	nd	nd	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd	nd	nd	nd
o-XYLENE	nd	nd	nd	nd	nd	nd
SURROGATES						
1,4 DIFLUORO BENZENE	10.8	156	10.8	153	10.8	163
CHLOROBENZENE	17.7	381	17.8	375	17.8	392
4 BROMOFLUORO BENZENE	21.0	656	21.0	638	21.0	674
NO INDICATED NOT DETECTED AT A DETECTION	VILIMIT OF 4 O LIC/L VADO	D FOR EACH COMPO	LIND			

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)

GEOFON PROJECT #04-4304-480 JPL 4800 OAK GROVE DRIVE PASADENA, CA

HP Labs Project #2K1228W1 GC SHIMADZU 14A FRONT

VOLATILE HALOGENATED AND AROMATIC HYDROCARBONS (EPA Method 8010/8020) ANALYSES OF SOIL VAPOR

AREA C	OUN	ITS
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	SVW37-VPI-079	SVW37-VPI-079	SVW37-VPJ-080	SVW37-VPJ-080
DATE	12/28/00	12/28/00	12/28/00	12/28/00
SAMPLING TIME	10:01	10:01	10:25	10:25
ANALYSIS TIME	10:04	10:04	10:28	10:28
SAMPLING DEPTH (feet)	170	170	180 ′	. 180
VOLUME WITHDRAWN (cc)	680	680	720	720
VOLUME INJECTED	1	1	· 1	1
DILUTION FACTOR	1	1	1	1
	RT	AREA	RT	AREA
CARBON TETRACHLORIDE	10.3	1012	10.2	902
CHLOROETHANE/BROMOMETHANE	nd	nd	nd	, ·· nd
CHLOROFORM	nd	nd	nd	nd
1,1-DICHLORO ETHANE	nd	nd	nd	nd
1,2-DICHLORO ETHANE	nd	nd	nd	nd
1,1-DICHLORO ETHENE	nd	nd	nd	nd
CIS-1,2-DICHLORO ETHENE	nd	nd-	nd	nd
TRANS-1,2-DICHLORO ETHENE	nd	nd	nd	nd
DICHLOROMETHANE	nd	nd	nd	nd
TETRACHLORO ETHENE	nd	nd nd	nd	nd
1,1,1,2-TETRACHLORO ETHANE	nd	nd	nd	nd
1,1,2,2-TETRACHLORO ETHANE	nd	nd	nd	nd
1,1,1-TRICHLORO ETHANE	nd	nd	nd	nd
1,1,2-TRICHLORO ETHANE	nd	nd	nd	nd
TRICHLORO ETHENE	11.6	17	11.5	26
VINYL CHLORIDE	nd	nd	nd	nd
TRICHLOROFLUOROMETHANE (FR11)	nd	nd	nd	nd
DICHLORODIFLUOROMETHANE (FR12)	nd	nd	nd	nd
1,1,2-TRICHLOROTRIFLUOROETHANE (FR113)	5.7	257	5.7	516
BENZENE	nd	nd	nd	nd
ETHYLBENZENE	nd	nd	nd	nd
TOLUENE	nd	nd	nd	nd
m&p-XYLENES	nd	nd	nd.	nd
o-XYLENE	nd	nd	nd	nd
SURROGATES				
1,4 DIFLUORO BENZENE	10.8	160	10.8	153
CHLOROBENZENE	17.8	392	17.8	377
4 BROMOFLUORO BENZENE	21.0	669	21.0	657
ND INDICATES NOT DETECTED AT A DETECTION LIF	VIT OF 1.0 UG/L-VAPOR FO	OR FACH COMPOUND		

ND INDICATES NOT DETECTED AT A DETECTION LIMIT OF 1.0 UG/L-VAPOR FOR EACH COMPOUND

ANALYSES PERFORMED ON-SITE IN DOHS CERTIFIED MOBILE LABORATORY (CERT #1745)